

Joint Legislative Task Force on Water Resource Mitigation

Water Use Efficiency
Regional Water Cooperative of
Pierce County -
Spanaway Water Company
November 2, 2021

Spanaway Water Company – History/Background

- Third largest non-profit mutual, &
- Fiftieth largest public water system in state.
- Entirely ground water with 11 wells (140 to 1,550 GPM).
- 180 % growth in 25 years to 11,218 connections – system converted from rural to suburban.
- Only 5.8 % growth in pumped water (1994-2017) with conservation!

32.4 % decrease in average day water use

46.4 % decrease in peak day water use

77.6 % decrease in unaccounted water

- Water Rights = 4,067.5 acft, maximum used 3,602 acft.
- Up to 3% growth per year coming through 2035 resulting in - **Another 79% in growth, but water supply short as soon as 2023.**

Spanaway's Foster Project Goals

Use the updated USGS models to determine surface water impacts of additional withdrawals allowing:

1. Conversion of up to 2,000 acft of existing non-additive water rights to primary additive rights,
2. In kind, in time, but not necessarily in place mitigation water for modeled surface water impacts,
3. Mitigation completed in viable aquatic habitat areas for the improvement of salmonid fishery and related aquatic habitat,
4. Mitigation via acquired/retired existing right/s, groundwater streamflow augmentation, or possibly some out of kind measures.

SWC 1991

Spanaway Water Company
June 1991

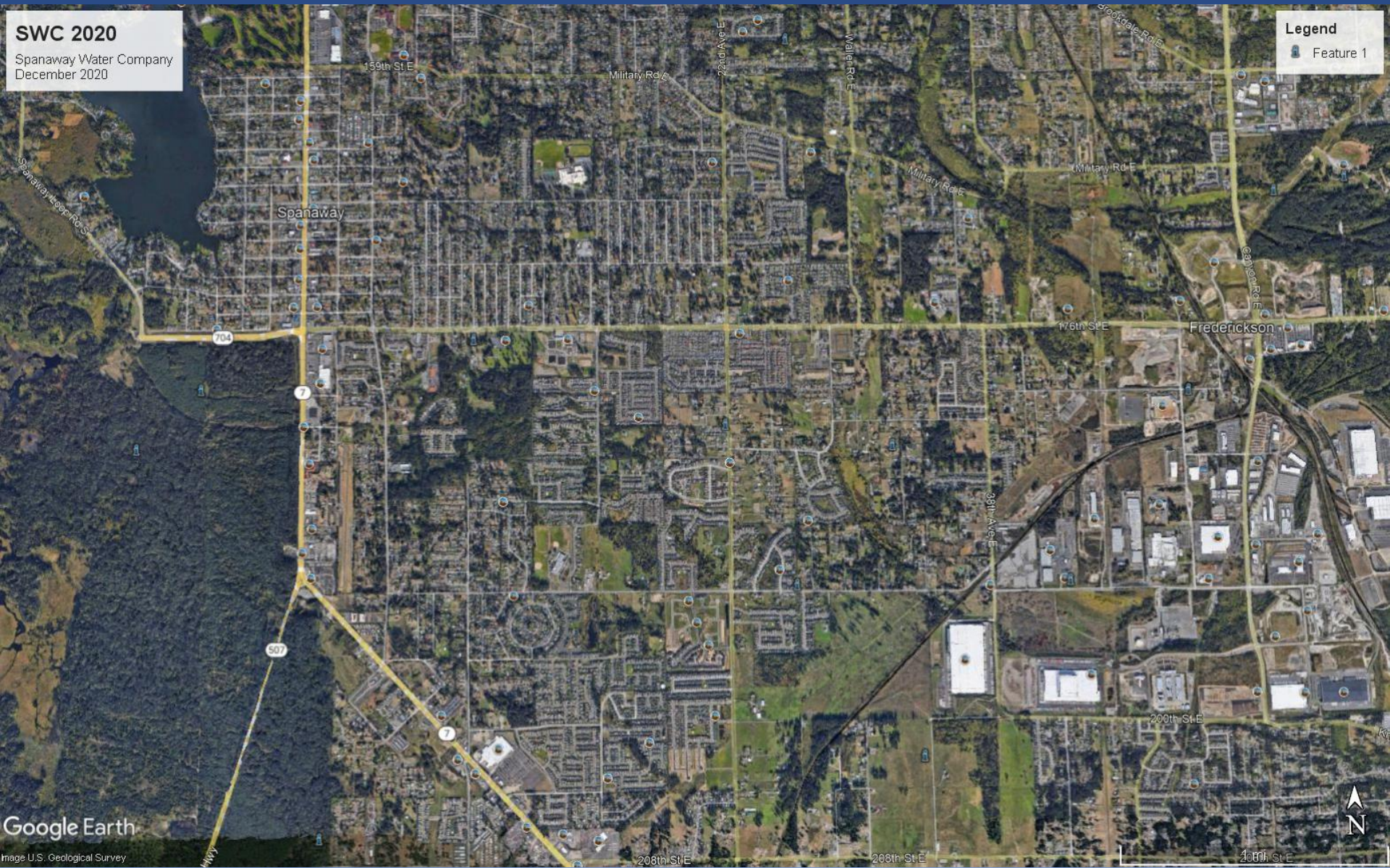
Legend

 Feature 1

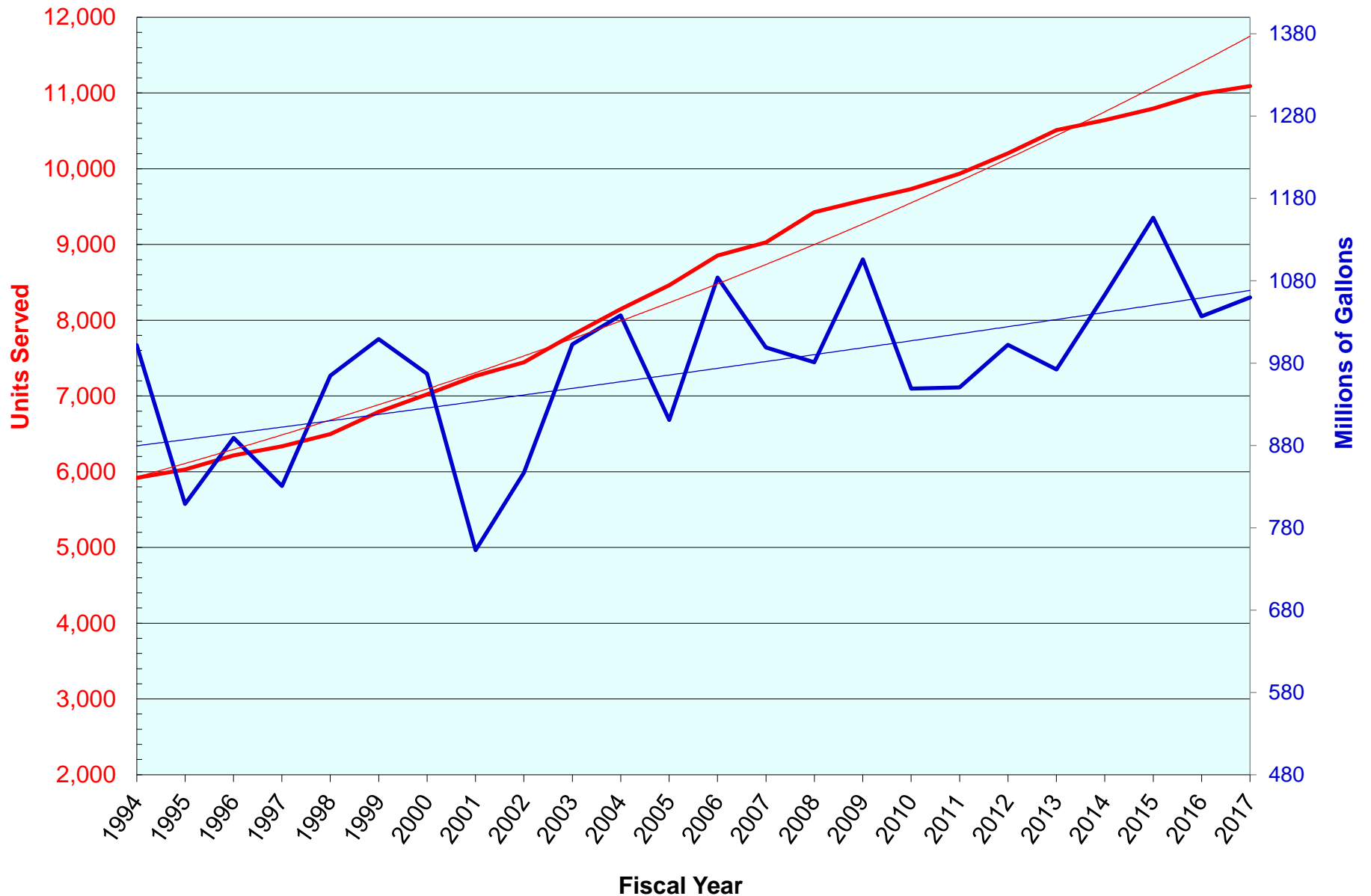


SWC 2020
Spanaway Water Company
December 2020

Legend
Feature 1



Annual Production and Units Served



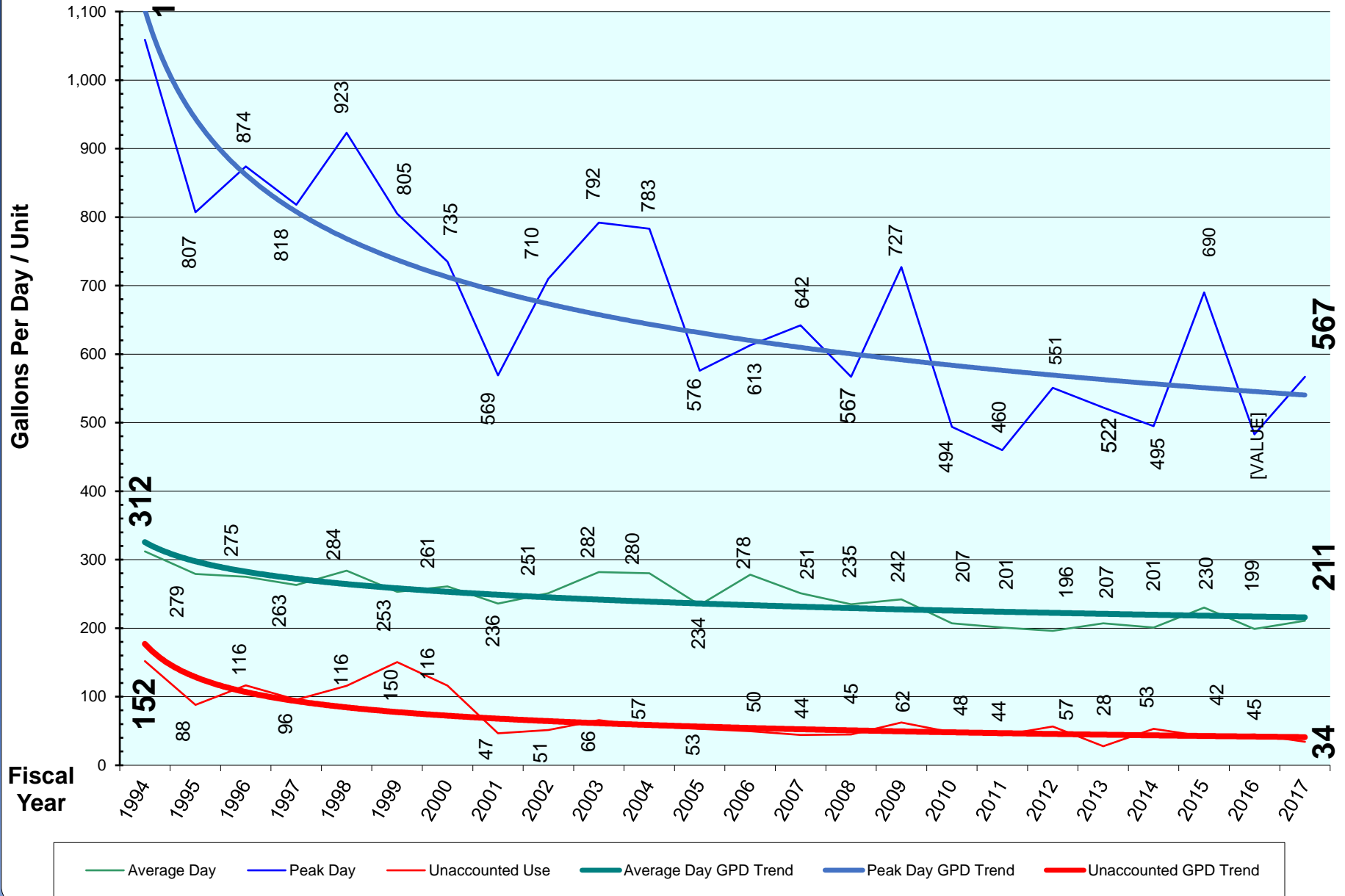
Units Served

MG Pumped

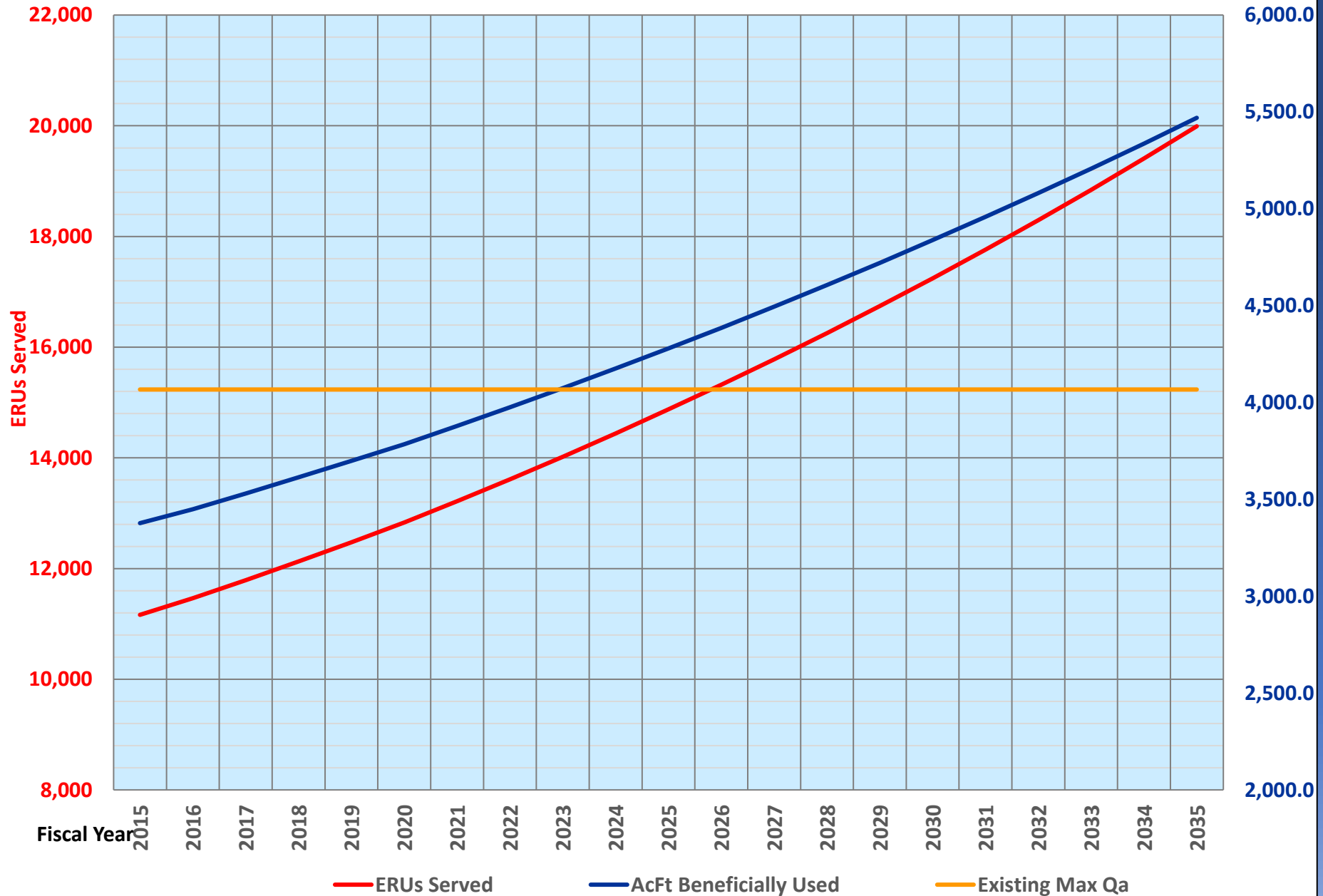
Units Trend Line

MG Pumped Trend Line

Peak and Average Day Water Use / Unit All Customers



2015 to 2035 Growth, Existing Qa, and Water Demand



SWC - WUE Measures

1. **Leak Detection Studies – Direct reduction in reduction in system leakage. 1995, 2000, 2005, 2010, 2012 partial, 2015, 2019. Costs with repairs \$100,000-\$200,000 each. ***
2. **Increasing Block Rates – Implemented in 1994 with annual increases. ***
3. Customer Education – Implemented in 1992.
4. Bill Information – Including usage comparison charts 1995.
5. Leak Repair incentives – Implemented 1997.
6. **Meter Change-Outs – 1991, 2003 radio read meters, 2019 begin electronic AMI meter installations \$4,200,000. ***
7. Participation in Alliance for Water Efficiency 2008.
8. Toilet Tank Leak Detectors 2012.
9. Targeted Irrigation System Education 2012.
10. Customer Account Audits 2003.

SWC 2021 Single Family Water Rates

Base Rate:	\$ 20.00
EPA Treatment:	\$ 7.00
<u>Capital Projects:</u>	<u>\$ 24.00</u>
Fixed Total:	\$ 51.00

Usage Charge per 100 CCF (748 gallons)

0 – 5	\$ 1.05/CCF
6 - 15	\$ 1.15/CCF
16 – 25	\$ 1.50/CCF
26 – 40	\$ 2.10/CCF
40 – 75	\$ 2.75/CCF
75+	\$ 3.25/CCF

Average Single Family Residence 2 month water bill = \$ 70.75

??? Questions ???

Thank You



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